

In re Application

PATENT Attorney Docket No. 14912.786

)	PATENT APPLICATIO	NAY CELL
hen E. Savas)	1.77 1. 1500	1000 \$ 7003 EL
10/053,138)	Art Unit: 1763	1700
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Inventor(s): Stephen E. Savas Application No.: 10/053,138 Filed: 01/18/2002 Title: Pulsed Plasma Processing of Semiconductor

Examiner: Parviz Hassanzadeh

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97

Commissioner for Patents Washington, D.C. 20231

Substrates

Sir:

Listed on an attached Form PTO-1449 is information known to applicant(s). The references listed on Form PTO-1449 were cited in U.S. patent 6,253,704 of which the present application is a continuation and/or U.S. patent 5,983,828 of which U.S. patent 6,253,704 is a divisional. A copy of each listed publication and U.S. and foreign patent is available to the Examiner in parent application no. 09/398,553 now issued as U.S. patent 6,523,704 and/or application no. 08/727,209 now issued as U.S. patent 5,983,828. Applicant will supply a copy of any cited document(s) upon request by the Examiner.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in \$1.56.

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\boxtimes	This s	tatemen	t qualifies under 37 CFR §1.97, subsection (b) because (check all that apply):
	\boxtimes	(1)	It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d) OR
		(2)	It is being filed within 3 months of entry of a national stage OR
	\boxtimes	(3)	It is being filed before the mail date of the first Office Action on the merits OR
		(4)	It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

Attorney Docket No.: 14912.786

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	date of forth in merits,	R $\S1.97(c)$. If this statement is being filed after the far anational application; (2) three months beyond in $\S1.491$ in an international application; or (3) the position of the mailing date of the earlier of a finance under $\S1.311$, then:	the date of entry of the national stage as set e mailing date of a first Office action on the
		a certification as specified in §1.97(e) is provide	led below; or
		a fee of \$180.00 as set forth in \$1.17(p) is auth payment of other papers filed together with this	
		$(R \S 1.97(d))$. If this statement is being filed after under §1.113 or a notice of allowance under §1.	
	A.	a certification as specified in §1.97(e) is comp	eted below; and
	B.	a petition under 37 CFR §1.97(d) requesting coherewith; and	onsideration of this statement is submitted
	C.	a fee of \$130.00 as set forth in \$1.17(i)(1) is at payment of other papers filed together with this	athorized below, enclosed, or included with the s statement.
\boxtimes	\$_0_	authorization. The Commissioner is hereby authorization. The Commissioner is hereby authorization. and charge any additional fees or credit any over soil Account No. 23-2415 (Docket No. 14912.75)	erpayment associated with this communication
		Respo	ectfully submitted,
		WILS	SON SONSINI GOODRICH & ROSATI
Dated:	<u>ک</u>	5-20-03 By:_	Michael J. Murphy, Reg. No. 37,404

650 Page Mill Road Palo Alto, CA 94304-1050 (650) 493-9300 Customer No. 021971 05-21-03

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) 763 PTO/SB/21 (6-99)

Approved for use through 09/30/2000. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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EMA to be used for all co	rrespondence after init	tial filing)	Group/Art Unit		1763
			Examiner Name	-	Parviz Hassanzaden
Total Number of Pages i	n This Submission	1,086	Attorney Docket 1	Number	01/18/2002 Savas 1763 Parviz Hassanzaden 14912.786
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Changes Affidavits/decl Extension of Time I Information Disclos Certified Copy of P Document(s) Response to Missin Incomplete Applica Response to M Parts under 37	Indicate the state of the state	Gor an Ap	nent Papers coplication) g(s) g-related Papers Routing Slip (PTO/S) companying Petition to Convert to a nal Application f Attorney, Revocation of Correspondence A l Disclaimer ntity Statement for Refund	on	After Allowance Communicati to Group Appeal Communication to Boa of Appeals and Interferences Appeal Communication to Gro (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Additional Enclosure(s) (please identify below):
1.52 or 1.53	SIGNAT	URE OF APP	LICANT, ATTORN	EY OR AG	CENT
Firm or Individual name Signature	hael J. Murphy, Reg. N				
Date 5	5-20-03	<i></i>	Customer Numb	per: 021	1971
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I hereby certify that this 20231, on this date:	correspondence is bein	ng transmitted to		or Patents,	
Typed or printed name	Linda Faye				
Signature	Linda ta			Date	may 20, 2003

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SHEET 1 OF 9

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		U.S	S. PATENT DOCUMENTS				700
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING	G DATE
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EXAMINER'S	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	SLATION
INITIALS						YES	NO
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			nigh rate plasma etching with varia		selectivity and	variable :	Si etch
			(10), 15 Nov. 1985, pp. 1095-109		Dia F. II		
			ctive Nitride to Oxide Etch to Red			demory	
			ociety Proceedings, Vol. 93-21, 19			,	<u> </u>
			ort dated 07 MAR 1997 of corresp	ponding PC	Application N	0.	-
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EXAMINER			DATE CONSIDERED				



INFORMATION DISCLOSURE **CITATION**

PTO-1449

ATTY. DOCKET NO.

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APPLICANT Stephen E. Savas

SHEET 2 OF 9

SERIAL NO. MAY CELL

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10/053,138 CA 23 FILING DATE 01/18/2002 **U.S. PATENT DOCUMENTS EXAMINER'S** PATENT NO. DATE NAME **CLASS SUBCLASS** FILING DATE **INITIALS** 5,811,022 09/22/1998 216 68 11/15/1994 Savas et al. 5,534,231 07/09/1996 Savas 216 67 01/17/1995 5,419,805 05/30/1995 Jolly 156 643.1 02/18/1994 03/21/1995 5,399,237 Keswick et al. 156 643 01/27/1994 11/08/1994 5,362,358 Yamagata et al. 156 643 05/14/1993 10/11/1994 156 643 5,354,417 Cheung et al. 10/13/1993 10/11/1994 118 723 5,354,381 Sheng 05/07/1993 437 5,344,792 09/06/1994 Sandhu et al. 200 03/04/1993 5,332,441 07/26/1994 Barnes et al. 118 723 10/31/1991 FOREIGN PATENT DOCUMENTS TRANSLATION **EXAMINER'S** PATENT NO. DATE COUNTRY **CLASS SUBCLASS INITIALS** YES NO \Box OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) T.H. Ahn et al., "Negative ion measurements and etching in a pulsed-power inductively coupled plasma in chlorine," Plasma Sources Sci. Technol. 5, p. 139 (1996). C. Charles et al., "Breakdown, steady-state, and decay regimes in pulsed oxygen helicon diffusion plasmas," J. Appl. Phys. 78, p. 766 (1995). C. Charles et al., "SiO₂ deposition from oxygen/silane pulsed helicon diffusion plasma," Apply. Phys. Lett. 67, p. 40 (1995). **EXAMINER** DATE CONSIDERED

INFORMATION DISCLOSURE **CITATION** PTO-1440

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INFORM	ATION DISCL		ATTY. DOCKET NO.	SE	ERIAL NO.	'D_	
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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING	G DATE
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		-	polymerization of tetramethyltin: N	anoscale	compositional co	ontrol of	
			. 8, p. 1067 (1996).				
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XAMINER			DATE CONSIDERED				

SHEET 4 OF 9

GROUP 1200 ATTY. DOCKET NO. SERIAL NO. INFORMATION DISCLOSURE 14912.786 10/053,138 **CITATION** APPLICANT Stephen E. Savas PTO-1449 **GROUP 1763** FILING DATE 01/18/2002 **U.S. PATENT DOCUMENTS EXAMINER'S** PATENT NO. DATE NAME **CLASS SUBCLASS** FILING DATE **INITIALS** 09/07/1993 156 643 01/29/1992 5,242,538 Hamrah et al. 5,234,529 08/10/1993 Johnson 156 345 10/10/1991 225 5,231,057 07/27/1993 Doki et al. 437 08/20/1991 5,227,331 07/13/1993 Westmoreland 437 174 02/10/1992 79.3 06/15/1993 252 10/17/1991 5,219,485 Wang et al. 643 5,217,567 06/08/1993 Cote et al. 156 02/27/1992 643 5,201,994 04/13/1993 Nonaka et al. 156 11/17/1989 5,188,704 02/23/1993 Babie et al. 156 643 05/09/1991 5,160,408 11/03/1992 Long 156 656 04/27/1990 FOREIGN PATENT DOCUMENTS TRANSLATION **EXAMINER'S** PATENT NO. DATE **COUNTRY CLASS SUBCLASS INITIALS** YES NO \Box OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Y. Lin et al., "Negative and positive ions from CF₄/O₂ RF discharges in etching Si," Appl. Phys. Lett. 62, p. 675 (1992). M. Moisan et al., "Radio frequency or microwave plasma reactors? Factors determining the optimum frequency of operation," J. Vac. Sci. Technol. B9, p. 9 (1991). H. Ohtake et al., "Charge-free etching process using positive and negative ions in pulse-time modulated electron cyclotron resonance plasma with low frequency bias," Appl. Phys. Lett. 68, P.2416 (1996).**EXAMINER DATE CONSIDERED**

GROUP 1700 SERIAL NO. ATTY. DOCKET NO. INFORMATION DISCLOSURE 10/053,138 14912.786 **CITATION** APPLICANT Stephen E. Savas PTO-1449 FILING DATE 01/18/2002 **GROUP 1763** U.S. PATENT DOCUMENTS **SUBCLASS FILING DATE EXAMINER'S** PATENT NO. DATE NAME **CLASS INITIALS** 10/06/1992 01/03/1991 5,153,442 250 551 Bovino et al. 05/12/1992 156 643 11/29/1989 5,112,435 Wang et al. 156 643 08/23/1990 5,108,542 04/28/1992 Lin 5,007,982 04/16/1991 156 643 07/11/1988 Tsou 4,994,715 02/19/1991 Asmus et al. 315 111.71 07/21/1988 06/12/1990 Koinuma et al. 437 110 02/12/1988 4,933,300 4,985,112 01/15/1991 Egitto et al. 156 643 02/09/1987 4,970,435 11/13/1990 Tanaka et al. 315 111.21 12/08/1988 06/26/1986 4,935,661 06/19/1990 Heinecke et al. 313 231.31 FOREIGN PATENT DOCUMENTS TRANSLATION **SUBCLASS** COUNTRY **CLASS EXAMINER'S** PATENT NO. DATE **INITIALS** YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) L.J. Overzet et al., "Enhancement of the negative ion flux to surfaces from radio-frequency processing discharges," J. Appl. Phys. 66, p. 1622 (1989). L.J. Overzet, "Model for charge movement after the radio frequency excitation is extinguished," J. Vac. Sci. Technol. A11, p. 1114 (1993). L.J. Overzet et al., "Modeling and measurements of the negative ion flux from amplitude modulated rf

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLA	CLASS SUBCLAS		FILING DATI	
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INITIALS							YES	NO
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	OTHER DO	CUMENTS (I	ncluding Author, Title, Date	e, Pertine	nt Pag	ges, Etc.)		
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INITIALS						YES	NO
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APPLICANT Stephen E. Savas

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SHEL. SERIAL NO. MAY 28 7003 TOO TOO ATTY. DOCKET NO. INFORMATION DISCLOSURE 14912.786 **CITATION** APPLICANT Stephen E. Savas PTO-1449 FILING DATE 01/18/2002 **U.S. PATENT DOCUMENTS EXAMINER'S** PATENT NO. DATE NAME **CLASS SUBCLASS** FILING DATE **INITIALS** 5,556,501 09/17/1996 Collins et al. 156/345 204/298.34 437 05/06/1994 5,514,603 05/07/1996 Sato 16 Kubota et al. 09/02/1997 5,928,528 07/27/1999 216 67 6,231,777 05/15/2001 Kofuji et al. 216 71 10/26/1995 6,395,641 05/28/2002 438 714 Savas 05/16/2001 6,253,704 07/03/2001 Savas 188 723 I 09/17/1999 FOREIGN PATENT DOCUMENTS TRANSLATION **SUBCLASS EXAMINER'S** PATENT NO. DATE COUNTRY CLASS **INITIALS** YES NO П OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) J.T. Verdeyen et al., "Modulated discharges: effect on plasma parameters and deposition," J. Vac. Sci. Technol. A8, p. 1851 (1990).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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